宁波飞扬电子有限公司

Ningbo Flying Electronics Co.,Ltd.

0.56"(14.20mm)Four Digit 7 Segment Display

Features:

*High segment intensity
*Wide viewing angle
*Range of colors
*Black face White segment
*RoHS compliant

Available option:

*Alternative face and segment color
*Alternative font
*Cropped terminal pins
*Available emitting color
*Low current version

Electro/Optical Characteristics If=20mA Ta=25℃

Part Number Common Cathode	Part Number Common Anode	Emitting Color	Peak Wavelength	Forward Voltage V_F/Seg.		Luminous Intensity I_V/Seg.	
				Typ.	Max.	Min.	Typ.
NFD-5643AH-11	NFD-5643BH-11	GaP/GaP Red	700	2.25	2.50	0.40	0.80
NFD-5643AS-11	NFD-5643BS-11	GaAlAs/GaAs SH Hi-Red	660	1.80	2.20	8.00	12.00
NFD-5643AD-11	NFD-5643BD-11	GaAlAs/GaAs DH Super Red	660	1.80	2.50	22.00	28.00
NFD-5643AE-11	NFD-5643BE-11	GaAsP/GaP Orange	632	2.10	2.50	8.00	12.00
NFD-5643AY-11	NFD-5643BY-11	GaAsP/GaP Yellow	585	2.10	2.50	4.00	7.00
NFD-5643AG-11	NFD-5643BG-11	GaP/GaP Green	570	2.20	2.50	7.00	11.00
Units			nm	V		mcd	

Maximum Ratings Ta=25℃ (Derate above 25℃)

Characteristic	Test Condition	Symbol	H	S	D	E	Y	G	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I_{FP}	50	100	100	100	100	100	mA
DC Forward Current Per Seg.		I_F	15	25	25	30	30	30	mA
Reverse Current Per Seg.	V_R=5V	I_R	10	10	10	10	10	10	μA
Power Dissipation		P_D	40*34	60*34	60*34	80*34	80*34	80*34	mW
Operating Temperature		T_{OPR}	-40 to +80						℃
Storage Temperature		T_{TSG}	-40 to +85						℃
Lead soldering temperature	1.60mm from body maximum 3 seconds		260						℃

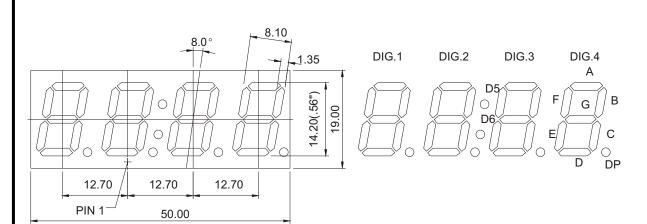| Checked	Chen N.H.	Approved	Jason Chen	Date	Otc/06/2006	PAGE 1 /2

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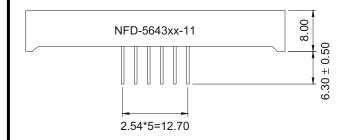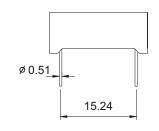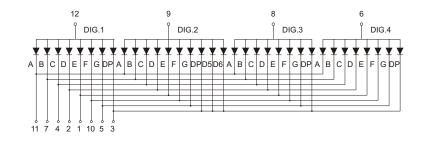## PACKAGE DIMENSION

8.0°
8.10
1.35
14.20(.56")
19.00
DIG.1   DIG.2   DIG.3   DIG.4

A
F   G   B
E   C
D   DP
D5
D6

12.70   12.70   12.70
PIN 1
50.00

NFD-5643xx-11
8.00
6.30 ± 0.50
2.54*5=12.70

ø 0.51
15.24

INTERNAL CIRCUIT DIAGRAM

Common Cathode NFD-5643Ax

12   DIG.1   9   DIG.2   8   DIG.3   6   DIG.4

A B C D E F G DP A B C D E F G DP D5 D6 A B C D E F G DP A B C D E F G DP

11 7 4 2 1 10 5 3

Common Anode NFD-5643Bx

12   DIG.1   9   DIG.2   8   DIG.3   6   DIG.4

A B C D E F G DP A B C D E F G DP D5 D6 A B C D E F G DP A B C D E F G DP

11 7 4 2 1 10 5 3

Tolerance ±0.25mm unless stated

| Checked | Chen N.H. | Approved | Jason Chen | Date | Otc/06/2007 | PAGE 2 /2 |